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Measuring CPU overhead for I/O processing in the Xen virtual machine monitor[\[PDF\] from usenix.org](#)

L Cherkasova, R Gardner - ... of the annual conference on USENIX ..., 2005 - portal.acm.org

**Virtual Machine** Monitors (VMMs) are gaining popularity in enterprise environments as a software-based solution for building shared hardware infrastructures via virtualization. In this work, using the Xen VMM, we present a light weight monitoring system for measuring the ...

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Virtualizing I/O devices on VMware workstation's hosted virtual machine monitor[\[PS\] from seagatecertification.org](#)

J Sugernan, G Venkitachalam, BH Lim - USENIX Annual Technical ..., 2001 - usenix.org

... uses it to host a user-level applica- tion (VMAp) component, as well as to schedule a priv- ileged **virtual machine monitor** (VMM) component ... Although a straight- forward hosted implementation is CPU-limited due to vir- tualization **overhead** on a 733 MHz Pentium R III system on ...

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[\[PDF\] Safe hardware access with the Xen virtual machine monitor](#)[\[PDF\] from psu.edu](#)

K Fraser, S Hand, R Neugebauer, I Pratt, A ... - 1st Workshop on ..., 2004 - Citeseer

... of these ideas, demonstrating that isolation can be provided with a surprisingly low performance **overhead**. ... driver code in a separate logical fault domain, essentially provid- ing **virtual** memory protection ... that we present in Section 4 uses a vir- tual **machine monitor** (VMM) to ...

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[\[PDF\] Survey of virtual machine research](#)[\[PDF\] from ucsb.edu](#)

RP Goldberg - IEEE Computer, 1974 - cs.ucsb.edu

... This may imply a very large simulation program and significant **overhead** for COMPUTER ... Systems of this kind are called **virtual** machine systems, the simulated machines are called **virtual** machines (VMs), and the simulator software is called the **virtual machine monitor** (VMM). ...

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Virtualization system including a virtual machine monitor for a computer with a segmented architecture

SW Devine, E Bugnion, M Rosenblum - US Patent 6,997,242, 2002 - Google Patents

... monitors described above, and from the definition of the term "**virtual machine monitor**" applied to ... **machine** emulators since they run at system level without the **overhead** and constraint ... can run any applica- tion and any operating system written for the **virtual machine** architecture ...

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Virtual machine monitors: Current technology and future trends

M Rosenblum, T Garfinkel - Computer, 2005 - ieeeexplore.ieee.org

... quently traps can incur significant additional over- head when using direct execution since each trap transfers control from the **virtual machine** to the **monitor** and back. Binary translation can eliminate many of these traps, which results in a lower overall virtualization **overhead**. ...

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ReVirt: Enabling intrusion analysis through virtual-machine logging and replay[\[PDF\] from psu.edu](#)

GW Dunlap, ST King, S Cinar, MA Basrai, ... - ACM SIGOPS ..., 2002 - portal.acm.org

... Logging adds 0-8% **overhead**, and logging traffic for our workloads can be stored on a single disk for several months. 1. Introduction Improving the security of today's computer sys- tems is an urgent and difficult problem. ... guest application **virtual machine monitor** (VMM) ...

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[\[PDF\] A virtual machine introspection based architecture for intrusion detection](#)[\[PDF\] from psu.edu](#)

T Garfinkel, M Rosenblum - Proc. Network and Distributed Systems ..., 2003 - Citeseer

... To better understand the implementation difficulties, performance **overhead**, usability, and practical effective- ness of our VMI architecture, we built Livewire, a ... We used a modified version of VMware Workstation for Linux to provide us with a **virtual machine monitor** capa- ble of ...

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Operating system support for virtual machines[\[PDF\] from usenix.org](#)

ST King, GW Dunlap, PM Chen - Proceedings of the annual ..., 2003 - portal.acm.org

... A **virtual-machine monitor** (VMM) is a useful technique for adding functionality below existing operating system ... of magnitude slower than that achieved when running outside a **virtual machine** (a standalone ... In this paper, we examine the reasons for this large **overhead** for Type II ...

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Diagnosing performance overheads in the xen virtual machine environment[\[PDF\] from usenix.org](#)

A Menon, JR Santos, Y Turner, GJ ... - ... conference on Virtual ..., 2005 - portal.acm.org

... a non- virtualized environment because of interactions with the underlying **virtual machine monitor** and other ... are currently available to help de- bug performance problems in **virtual machine** environments ... wide statis- tical profiling toolkit implemented for the Xen **virtual ma- chine** ...

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